





2011全线产品



引领

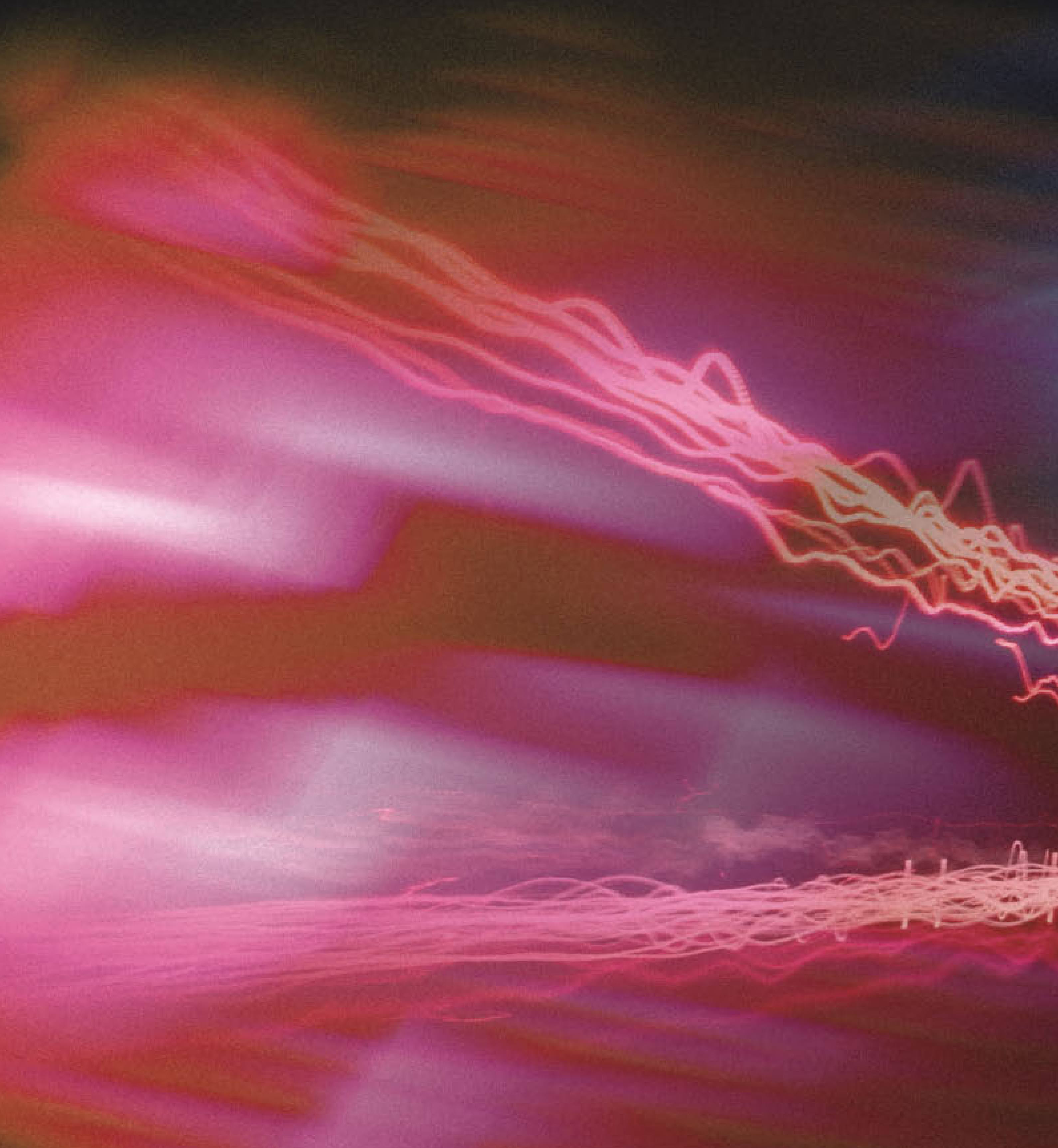
Leading

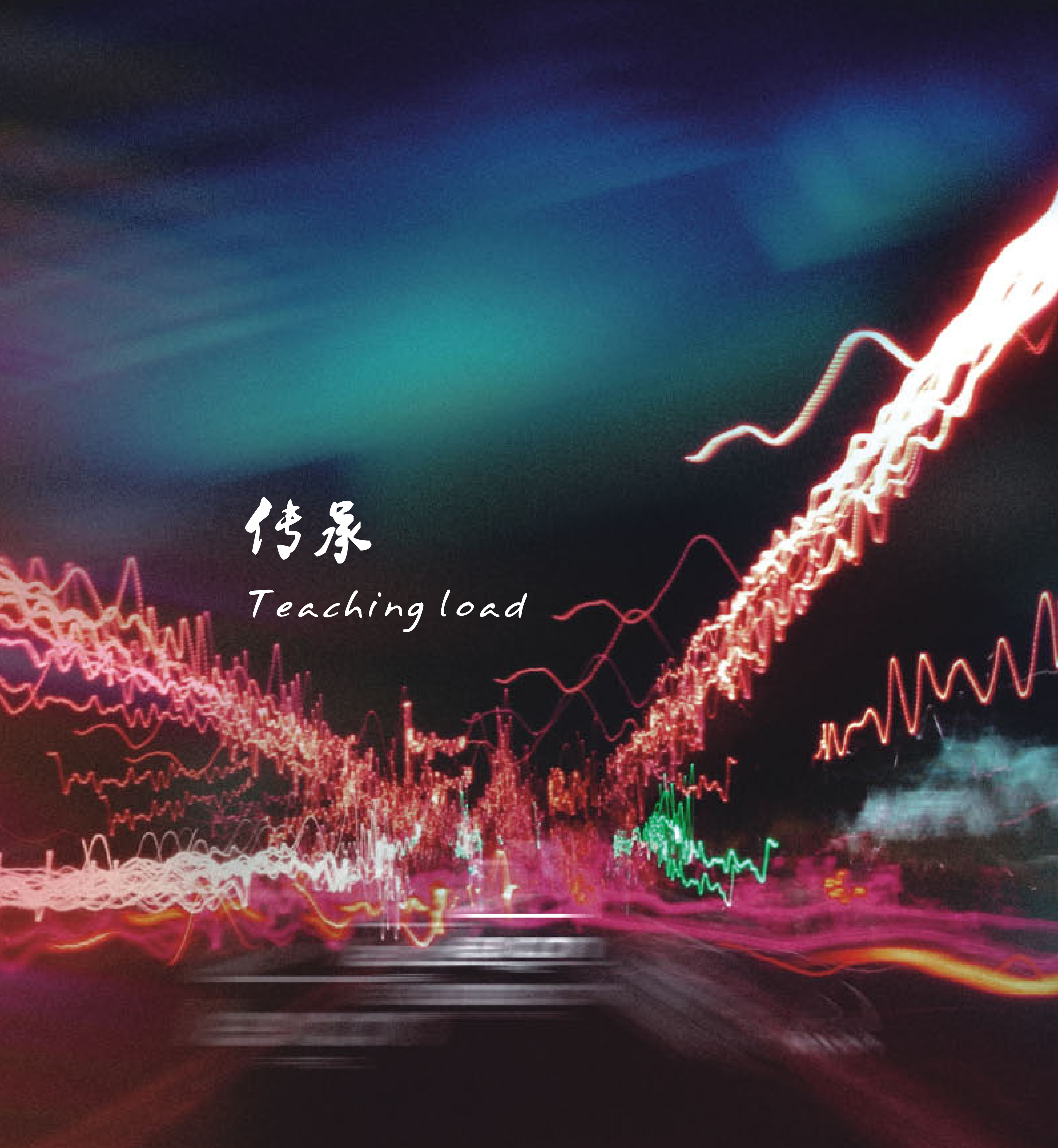

突破
Break through






超越
Beyond




传承
Teaching load


sae
sae



实景拍摄，后期合成
Action shooting ， After Effects

关于力迅

力迅品牌创建于2004年，专注于新音频技术应用、时尚的外观、轻便柔性结构的研究。力迅品牌追求的是高科技、时尚、可塑性强的特色。

力迅产品包括功放、时序电源和音箱产品。

力迅专业功放全部采用开关电源供电技术，将功放的体积、重量在同功率输出的条件下做到只有传统的环变功放的1/3-2/3，大大提高了功放的便携性和安装容易程度。力迅的开关电源功放全部采用SMT/AI/ICT工艺进行标准化生产，大大提高了产品的稳定性和一致性。力迅开关电源功放产品的市场接受程度稳居国内的前三位，越来越多的客户正转向力迅开关电源功放的阵营。

力迅的音箱系统着眼于时尚的外观和方便的安装，无论是线阵系列还是固定安装系列，力迅的音箱产品都是采用HIPS ABS材料注造而成，达到轻便防水而不失木材的声学特性；力迅音箱的面网、吊挂件全部为铝合金压铸而成轻便防锈。其中线阵的喇叭单元采用钕磁钢材料，进一步降低了音箱的整体重量。

力迅音箱追求平衡、宽广的音色，以小小的箱体发出清晰、饱满的声音。

力迅开关电源功放与HIPS ABS材料音箱的配合，是中小型流动演出、固定安装音箱系统的最佳选择！

About Lexonpro

Found in 2004, Lexonpro is devoted to the research of new audio technical application,fashional appearance, lightweight configuration. Hence, high technology,fashion and strong plasticity are Lexonpro’s remarkable feature.

Lexonpro’s product includes professional amplifier,sequence power and speaker.

All Lexonpro professional amplifiers under are adopted switch mode power supply (SMPS) technology,which makes amplifier’s volume and weight 1/3-2/3 less than the traditional transformer amplifier and greatly improves amplifier’s portability and ease ofinstallation. Furthermore, all SMPS amplifiers are adopted SMT/AI/ICT technology for standard mass production,which greatly enhances the reliability and consistency of product. Nowaday, market acceptance degree for Lexonpro’s SMPS amplifiers tops three in China and more and more users are turning to use Lexonpro’s SMPS amplifiers.

Lexonpro’s speakers are focus on fashion appearance and convenient installation,whatever line array or installation series are. The enclosures are made from HIPS ABS plastic, portable, waterproof but with same acoustic properties as wood; The grille and hanging accessories are made from aluminium alloy, convenient and rust-proof. Thereinto,the voice coil of line array comprises neodymium magnet steel, which further decreases the weight of speakers.The speakers seek balance and broad tone, making clear and full sound from small enclosure.

Combining Lexonpro’s SMPS amplifier with HIPS ABS speaker shall be the best choice for small & medium mobile performance and installation audio project. Realizing the big leap of efficiency and tone.




Electronic
Amplifier, Accessories

关于 Class I™
About Class I™

A类的音质
接近D类的效率
专业功放技术的收官之作
The sound quality of Class-A
Close to the efficiency of Class-D
The "Yose" work of professional power amplifier technology



Class I™ 技术简介

众所周知专业功放着重的是稳定性，大功率高效率和准确的音质表现。

现在我们常见到的音频功放类别有A类、AB类、D类、H类，还有什么G类和T类，还听说有S类。这些都是为某一种独特的技术命名的。在专业舞台功放领域，采用什么技术的目的都是为了达到高效率，这样才可以得到相对更好的稳定性和低成本，但也相应要更复杂的线路来完成。

AB类是为了提高A类的效率，而采用降低功率管偏压，令到静态电流减少，从而提高工作效率的。AB类也延伸出推挽结构，将正负波形进行分别放大，令到输出动态得以提高。AB类有着优秀的音质和可以接受的效率，线路也相对更简单，可以说，AB类是所有模拟功放的基础。现在基本在600瓦之内的产品一般都采用AB类。

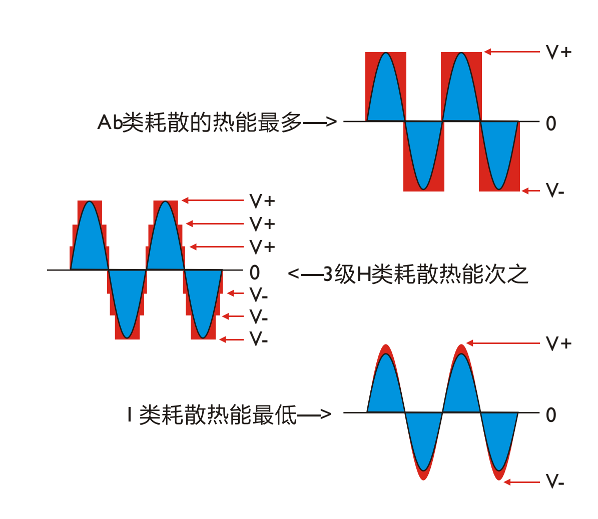
还有现在超大功率产品普遍的采用根据音频信号特性，进行采样比较，并分级控制供电电压的一种技术。这种技术中有采用自举线路完成的，我们定名为H类。有采用独立电源来完成的，我们定名为G类。其实这都属于AB类技术的一种延伸。相比AB类能提高最高25%的整机效率，但因为供电被分割切换，这就带来不避免的缺点。譬如，对滤波电容的一致性提出了较高的要求，电容串联使用，其容量也将减少，滤波效果不理想，其耐用性和稳定性的下降也伴随而来。还有因为采用多级切换供电，也带来其特有的失真——开关失真。反映在音质的表现上就是高频段现出松散、噪、炸耳等的不好的感觉。低频也显得较硬，瘦。因为其电源结构的特点，这限定功率管功耗上没有很好的保护措施，也会令到烧管等现象不时发生。以上种种特点，注定我们还需要开发更好的类别来代替H类。

还有D类和T类，这就完全不是AB类模拟功放的原理了。是通过调制技术，对音频进行数字化处理，并控制开关管的通断进行输出的一种技术。他需要进行AD-DA的数模转换过程，对音质的影响就看这个过程是如何处理了。但D类的效率是目前多种功放类别中最高的，在实际应用中，都能获取约85%以上的转换效率，从而大大减少因散热带来的种种麻烦，而能做出超大功率且稳定的产品的厂家也很少。现在这技术也日渐成熟，也悄然进入HiFi界，可相信，这也许是以后功放技术的一种主流。而现在这种技术产品普遍应用的领域是小功率有源音箱和超低频专用扩音为主。

从上述所描述的类别，再根据我们所需要达到的目的来想，要是要获取AB类的音质，又有D类的高效率，我们就考虑将D类再加上AB类的功放后级而组成现在我们定名为I类的放大类别。I (Infinity) 是无穷无尽的意思，代表这 I 类有着更美好的前景，成为以后被广泛采用的专业功放类别，令专业功放迈向全新新一代。

I 类的诞生思维来自于H类的供电方式优化。H类是通过分级切换供电电压来令效率提高的，但因为分级越多，供电线路也就越复杂，带来的失真也越加严重，所以现在也就以3级为最多了。D类放大器若是纯粹用来最为电源驱动考虑的话，其音质并不涉及最后的结果，后级输出由AB类来担当，其供电的电源来自于D类放大器，电源电压完全跟随所要放大的音频信号，这样，功放管就能工作在线性区域最低限度的低管压降工作状态，其需要承受的电压和耗散的热能也就基本接近于D类放大器了。这样D类效率AB类音质的 I 类放大器就此诞生了。I 类的调制电源是工作在整个音频频段的D类驱动的，所以需要很高的调制频率，在SAE多年的研究中，采用开关电源这类高速电源更能体现其优越的性能，所以在突破此技术难关之后，性能近乎于完美的 I 类产品将更轻、功率更大、体积更小的理想得以实现。

下图是3种功放类别耗散热能的示意图。其红色面积越大，就说明耗散的热能越多，效率越低。



而这么高效的 I 类放大器，不仅仅只是高效率，还有功率管由于工作在较低的管压降下，其被击穿过热烧管等可能性基本降为零，令到超大功率产品的安全性得以有效控制。同时带动负载能力也得以加强，作为专业功放，这是也是必须具备的能力。综合上述技术优势，I类产品将质量迈上了一个新的台阶。这也毫不夸张地说，I 类必将成为现代超大功率专业功放的领航者。

About Class I™

It is well know that the professional power amplifier focus on stability, large power, high efficiency and accurate sound performance. Now we can see many classes of audio power amplifier such as: class A、class AB、class D、class H and others. They were named for one unique technology. In the field of professional amplifier, no matter what technology we use, we all aim to achieve the high efficiency, better stability and low-cost relatively, but that need more complicate circuit structure to complete it.

The Class AB was born to improve the efficiency of Class A. class AB adopt to drop the bias of power transistor so that can reduce quiescent current and improve the efficiency. Class AB also extended the push-pull structure to amplify the positive and negative waveforms respectively so that the output dynamic can be improved. Class AB not only has a good sound quality and acceptable efficiency but also have a simpler circuit. We can almost say class AB is the basis of all analog power amplifiers. Generally, amplifier within 600W are adopted Class AB now.

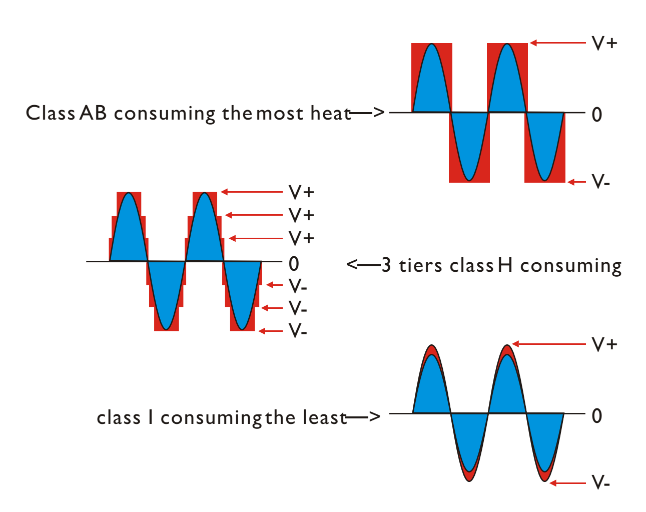
Now super power products widespread used the technology which is according to the characters of audio signal to make sampling compare and step control the power supply voltage. There is one in this kind technology which is completed by Bootstrap circuit we named it class H. And if it is completed by Independent power supply we called it class G. No matter class H or class G is the extension of class AB. They have increase the efficiency as high as 25% than class AB, due to their power supply has been segmented and switched, so they have some inevitable disadvantages. For example: the consistency of filter capacitor is highly demanded, Capacitors in series lead to decreasing capacitance, undesirable filter effect and accordingly the decline of durability and reliability. On the other side, besides, the special distortion – switch distortion is caused as well. In particular the high frequency band sounds not good, loose and noise. And the low frequency sounds stiff and tight. Furthermore, due to its special structure the power tube can not under good protection resulting in frequent burning transistor. From all above, it dooms that we need to launch better class to replace class H.

Class D and class T they are not the same theory with class AB completely. They are the technology by modulation technology to digital processing the audio signal and control the switch transistor of the output. It needs an AD-DA transformation process for input signal and it has a big influence on the sound. Class D has the highest efficiency in kinds of amplifier class. It can get 85% transformation efficiency in practice. Thus greatly reducing the problems brought by cooling, but rarely manufacturers can produce the super power and stable product. Now this technology is becoming mature and into the HIFI world quietly, maybe this technology will be the main trend of amplifier. Now it is widespread used in small power active speaker and sub-woofer. From all above and connect to our aim is to get the sound of class AB and the efficiency of class D, so we consider to combine the class D and class AB to make a new generation amplifier class, we named it class I™. "I" (Infinity) means have no limit, we believe class I will be widely used in professional amplifier field in the foreseeable future.

The class I™ is an upgrade on power supply of class H. Class H improve the efficiency by multi-step power supply, but more steps means more complicate circuit and more distortion, three steps is extremely. If just consider Class D as a power driving, the sound quality does not involve the final outcome. After output from the class AB and its power supply from the Class D amplifier model. The power voltage will completely follow to the audio signal which needs to be amplified. Thus the transistor can operate in linear region with a minimum low transistor voltage drop, so that it need to withstand the heat dissipation and voltage are also base close to the class D amplifiers. As a result, Class I™ was born with the efficiency of class D and the sound quality of class AB.

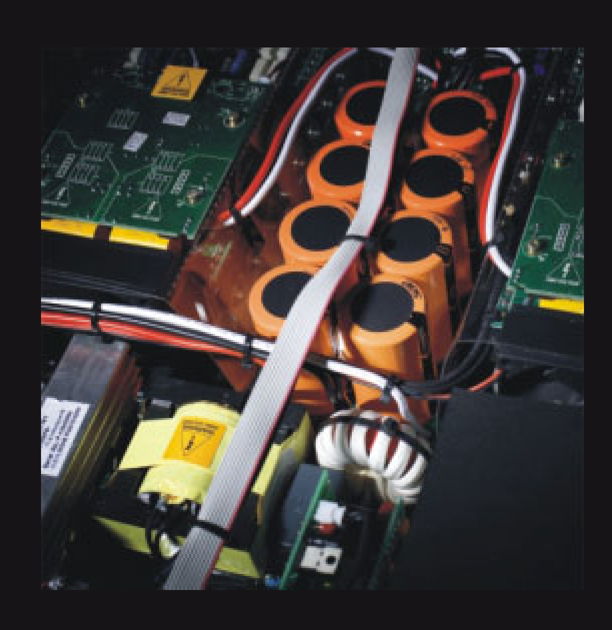
The modulated power of class I is driven by class D which work in the whole Audio band that requires a high modulation frequency. By our research in more than 13 years we find that adopt SMPS model can embody the superior performance much better and our class I technology achieved lighter weight, higher power and smaller size nearly perfect.

The following is the heat consuming of 3 kind of amplifier Class. Bigger red area means more heat consuming and lower efficiency.



Class I™ amplifier is not only high efficiency but also has a good safety control because its power transistor working in a low tube voltage drop the possibility of burning transistors and overheating basically are zero. At the same time the ability of drive load has been strengthened. This is an indispensable ability as a professional amplifier. Taking these technical advantages class I improve the quality of our products to a new stage, there is no doubt, class I™ will be a leader of modern super power professional power amplifier.


CH1
-80dB
0dB
PROT
CLIP



叙述开关电源 About SMPS

1955年美国罗耶(GH.Roger)发明的自激振荡推挽晶体管单变压器直流变换器,是实现高频转换控制电路的开端，1957年美国查赛(Jen Sen)发明了自激式推挽双变压器，1964年美国科学家们提出取消工频变压器的串联开关电源的设想，这对电源向体积和重量的下降获得了一条根本的途径。到了1969年由于大功率硅晶体管的耐压提高,二极管反向恢复时间的缩短等元器件改善,终于做成了25千赫的开关电源.
目前，开关电源以小型、轻量和高效率的特点被广泛应用于以电子计算机为主导的各种终端设备、通信设备等几乎所有的电子设备，是当今电子信息产业飞速发展不可缺少的一种电源方式。

音频功率放大器一直都以工频电源为主导，其优点和缺点都表现突出。在当今的专业音频发展突飞猛进的时代，作为扩声领域的主要设备，要求其输出功率也是愈来愈大，而工频电源其缺点也愈为突出。SAE早在建立公司之初就开始了开关电源功放的研发，直至目前，产品已经完全进入成熟发展的阶段，并将其运用到以Class I为主导的全新一代产品中。

而SAE针对音频超大功率产品研发的开关电源彻底了解了作为音频功率模块供电的特性需要，注入了特有的零电流零电压开关的管控制特性，软启动及数值化稳频技术确保了期使用的可靠性。

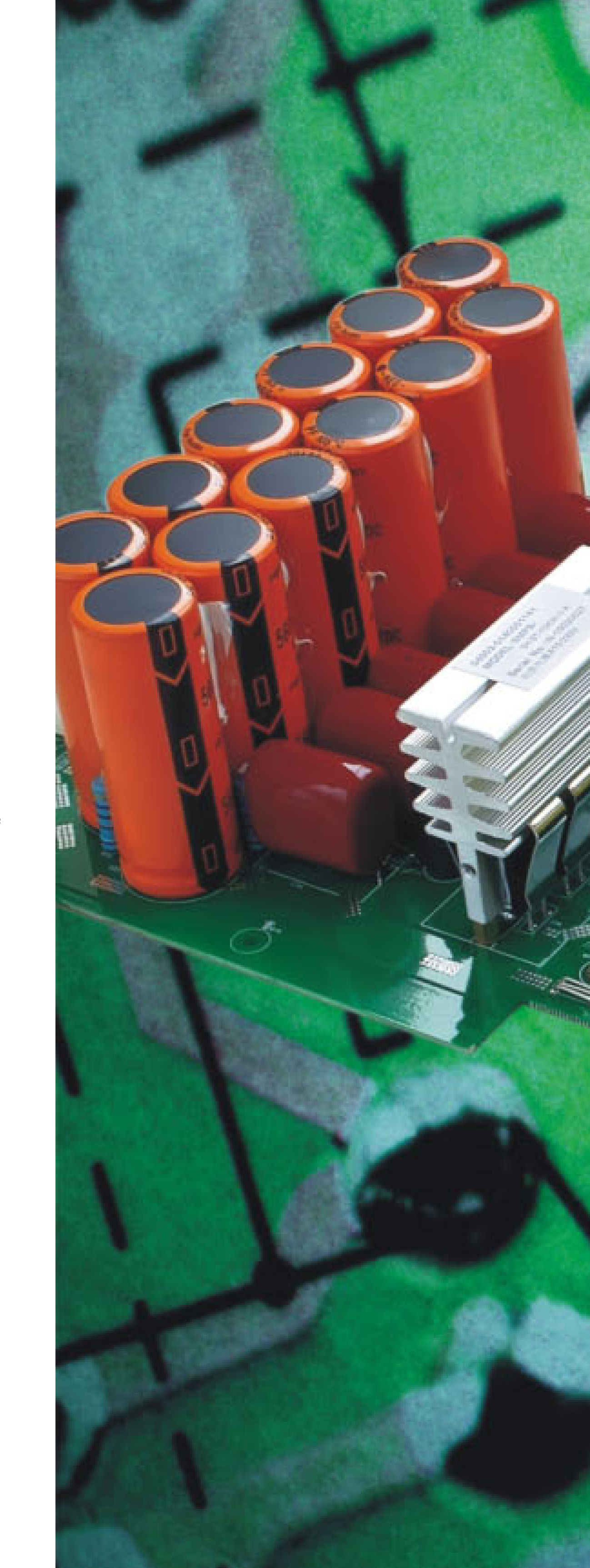
而主要的变换器也由专门建立的车间进行生产，进一步深化了其供应链的可靠性，深化到每一个环节，做到彻底的质量可控性。

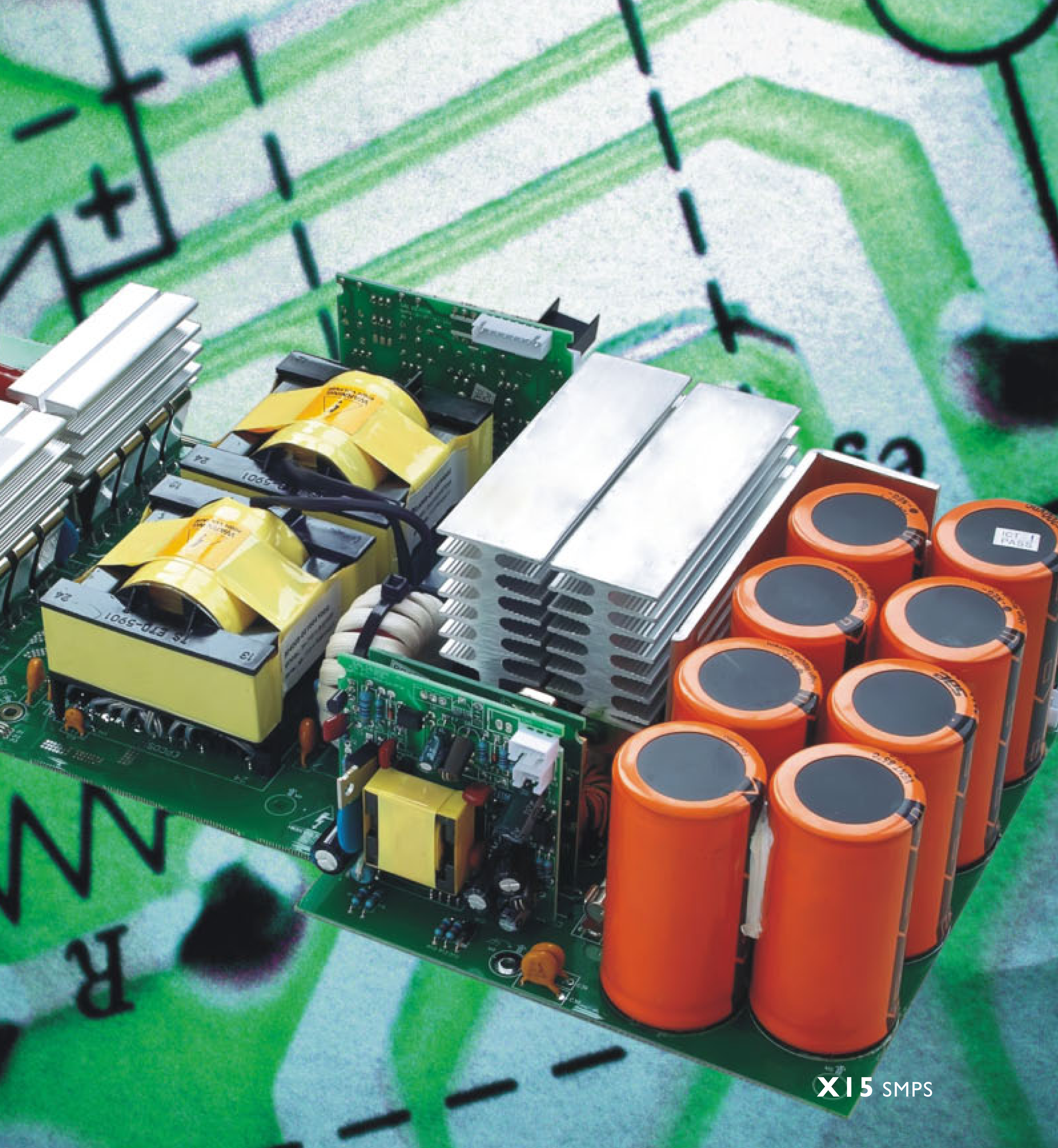
作为现在及未来主要的电源变换模式，已经有超过30%的用户在毫无疑问地使用着它，在商业演出设备租赁领域、固定安装的娱乐工程、场馆工程领域都活跃着他们的身影，你还等什么？赶快加入其中吧！

In 1955 , American scientist GH.Roger invented self-excited oscillation pull-push transistor single transformer DC converter is the beginning of high frequency conversion control circuit.In 1957 , America scientist Jen Sen invented self-excited oscillation pull-push transistor double transformer,And then in 1964 the U.S.scientists have proposed the idea to abolish the industrial frequency transformer′ s series switching power supply that obtained a fundamental way to down the size and weight of the power supply. Due to the improve of withstand voltage of high-power silicon transistors and the diode reverse recovery time and the other components, 25KHz SMPS model finally born in 1969. At present, SMPS with small size, lightweight and high-efficiency features is widely used in a variety of terminal equipment, communication equipment and even used in almost all electronic equipment, nowadays the SMPS has became to the indispensable power supply model in the rapid development of electronic information industry.

Audio power amplifiers always driven by industrial frequency power supply the advantages and disadvantages are so clear. With the rapid development of professional audio requires the output power higher and higher lead to the disadvantages of industrial power supply clearer and clearer. SAE concentrate on SMPS for more than 13 years, until now our products are mature and reliable. We used it in our brand-new generation products which driven by class I.

SAE research and development SMPS for Ultra-high-power audio products thorough understanding the power supply′ s characteristics of audio power modules, we built a unique zero-current and zero-voltage switching transistor control on it , soft start and value frequency stabilization can ensure the reliability of its use. We produce the main transformer by the special workshop further deepen the reliability of its supply chain , deepen to every link the quality is under control completely.
As the main power transform model in today and future, more than 30% clients are using it with no doubt, you can see our products in fixed installation project、venue engineering and many places, what are you waiting for? Come and join us!





X15 SMPS

15

● 高效率高音质的专利Class I™类输出技术
Class I™技术是运用全调制电源技术令功率输出管供电电压始终比输出电压高2~3V的状态的功放模块供电技术。

● 在全音频范围内具丰富细节无音染的优秀音质、准确、充沛。
因为采用了Class I™技术，令供电的工作条件更加理想，消除了H类特有的开关失真。可以用接近于A类的音色还原重放。

● 专利的温度增益及功率钳制控制技术，令长期满负荷应用的稳定性得到有效保障，同时连续带载的输出功率更可无忧地使用。
连续带载是功放能否连续高负荷工作的重要指标，温度补偿有效保证了连续的应用。而15系列5款功率放大器产品就足以应付所有高端定位的工程项目。

● 专利的光控音量控制技术，大幅提高本底噪音指标，令音色更宽广纯正。
本底噪声有别于信噪比，当你要求更纯正泛音更宽广的音色时，有任何影响都要降到最低，利用电压控制其音量，这将大幅提高对音质。

● Our patent technology class I™ output circuitry, high efficiency and high sound quality.
Class I™ adopt full-modulation power supply technology, the voltage supply of power output transistor always higher 2~3v than output voltage.

● In the whole audio range with the best sound quality of rich detail and without sound coloration, accurate and abundant.
Adopt class I™ technology, the power supply module have a better working condition and eliminated the special switch distortion of class-H. Its sound quality is close to class A.

● Our patent temperature gain and power control technology, make a effective protection for stability in the long-term and full-loading application.
Continuous loading is a very important side of professional power amplifier, Temperature compensation to ensure the continuous application effectively. The 5 models power amplifier of 15 series can satisfy the needs of high engineering project.

● Patented light-control volume control, greatly improve the background noise indicator, make a broader pure tone.
The background noise is different with the S/N ratio, when you need a more pure sound and broader tones, every impact should be down to the minimum and use voltage to control the volume which will greatly improve the sound Quality.

功率放大器的瞬态输出电流大小，很大部分是电源是否能提供此强大的电流。15系列的滤波大电解采用能够提供超级强大涟波电流（Irac）的品牌高级电容。同时具有低漏电电流、耐高温、长寿命的特点，全面提升功放整体素质的作用。
15系列还特意配备了能实时显示其散热器工作温度、音量衰减值、保护信息等等的LCD屏幕，令你能实时了解并驾驭他。
输出功率管采用正品原装的品牌功率管，确保其品质的稳定性。

The transient output current size of power amplifier largely depends on if the power supply can provide the powerful current. 15 series adopt high quality brand capacity which can provide super high ripple current（Irac） and also have long use life、low leakage、good heat resistance, can improve the overall quality comprehensively.
15 series special provide a LCD indicator screen which can indicator the temperature、sensitivity、protection and other functions in real-time when it works can provide a better use experience for users.
Output power transistor adopt genuine original TOSHIBA、SANKEN or ON Semi to ensure the stability of product quality.





型号 Model	同时带载的每通道功率 Watts per channel （Both Channels Driven）			桥接功率 Bridge mode	
	8Ω*	4Ω**	2Ω**	8Ω**	4Ω**
5	500w	850w	1500w	1700w	2700w
7	700w	1100w	1700w	2200w	3200w
11	1100w	1800w	2600w	3700w	5100w
15	1500w	2500w	3400w	4600w	7000w
18	1800w	3000w	3300w	5500w	6700w
20	2000w	3400w	3900w	6700w	8000w

备注：
1、*,此功率是按照EIA标准测量得出.
2、**,此功率是使用40ms脉冲1kHz正弦波在1%总谐波失真下测量得出。
3、其他数据按：Q/SAE 1-2005标准测试得出。
4、SAE保留对以上参数的解释权，参数有所变动恕不另行通告，最后参数以产品说明书为准。

Remark :
1、*,The power is tested under EIA standard.
2、**,The power is tested under the condition of 40ms burst, 1KHz sine wave and 1%THD.
3、Other data is tested under Q/SAE 1-2005 standard.
4、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.


5~18


20



5
7
11
15
18
20
Class I SMPS Power Amplifier
CH1
CH2
ON
OFF



Q13

● 高效率高音质的专利Class I™类输出技术
Class I™技术是运用全调制电源技术令功率输出管供电电压始终比输出电压高2~3V的状态的功放模块供电技术。

● 采用稳压开关电源供电，令输出功率不受市电电压波动影响、输出更稳定可靠。
稳压电源能保证提供给输出级恒定的电源电压，当市电电压波动，其输出功率值还能保持在额定值值范围内，对于超大功率产品，对整个系统起到积极保护的作用。

● 专利的温度增益及功率钳制控制技术，令长期满负荷应用的稳定性得到有效保障，同时连续带载的输出功率更可无忧地使用。
连续带载能力是功放能否连续高负荷工作的重要指标，温度补偿有效保证了连续的应用。而Q系列功率放大器产品就足以应付所有高端定位的工程项目。

● 专利的光控音量控制技术，大幅提高本底噪音指标，令音色更宽广纯正。
本底噪声有别于信噪比，当你要求更纯正泛音更宽广的音色时，有任何影响都要降到最低，利用电压控制其音量，这将大幅提高对音质。

型号 Model	同时带载的每通道功率 Watts per channel（Both Channels Driven）			桥接功率 Bridge mode	
	8Ω*	4Ω**	2Ω**	8Ω**	4Ω**
Q13	1300wx4	2000wx4	2200wx4	2000wx2	4000wx2

备注：
1、*,此功率是按照EIA标准测量得出.
2、**,此功率是使用40ms脉冲1kHz正弦波在1%总谐波失真下测量得出。
3、其他数据按：Q/SAE 1-2005标准测试得出。
4、SAE保留对以上参数的解释权，参数有所变动恕不另行通告，最后参数以产品说明书为准。

Remark :
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2、**,The power is tested under the condition of 40ms burst, 1KHz sine wave and 1% THD.
3、Other data is tested under Q/SAE 1-2005 standard.
4、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.

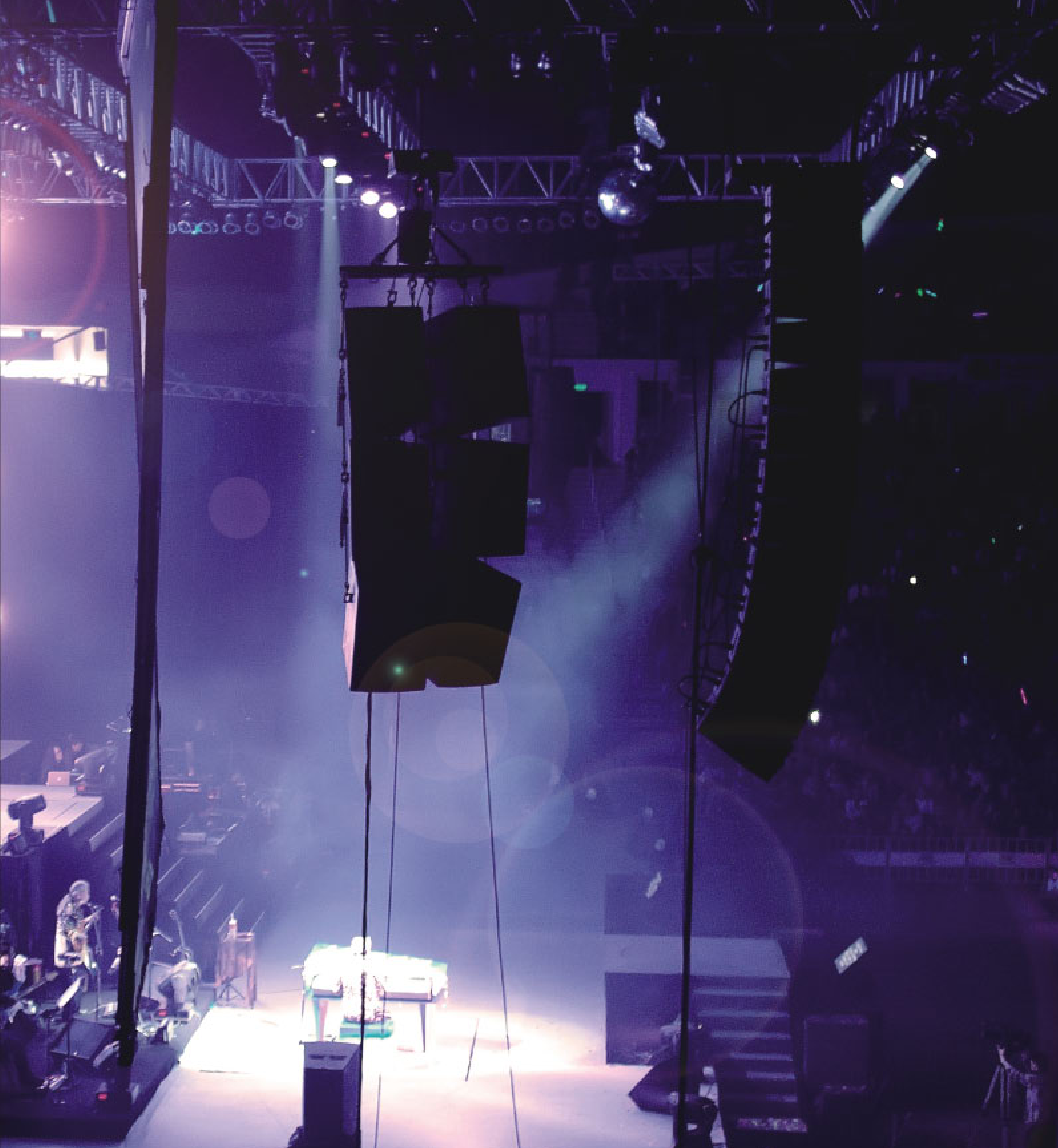
● Patented technology class I™ output circuitry, high efficiency and high sound quality.
Class I™ adopt full-modulation power supply technology, the power output transistor voltage supply always higher 2~3v than output voltage.

● Adopt regulated SMPS, Power output can not affected by voltage fluctuations, the output is more stable and reliable.
Regulated power supply can provide a constant power voltage to power output, when the main voltage fluctuated, the power output still can keep in a rated range. For ultra high power products this could be an active role on protect the whole system.

● Our patent temperature gain and power control technology, make a effective protection for stability of the long-term and full-loading application.
Continuous load is a very important side of professional power amplifier, Temperature compensation to ensure the continuous application effectively. The Q13 power amplifier of Q series can satisfy the needs of high engineering project.

● Our patented light-control volume control, greatly improve the background noise indicator, make a broader pure tone.
The background noise is different with the S/N ratio, when you ask a more pure sound and broader tones, every impact should down to the minimum and use voltage to control the volume which will greatly improve sound quality.



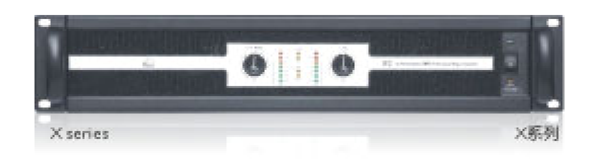


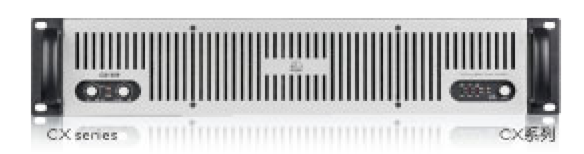
这是开关电源供电的H类功放产品在市场销售和占有率最高的产品线，其身影普及到各种应用场合，可以说是无处不在的量化产品了。其以高性价比，出色的电器性能和齐备的功率等级而受到广大工程商青睐。

●分立元件，AI工艺制程

●自主研发、制造的专业音频超大功率开关电源

●ICT电脑检测，8道严格QC流程







功率齐全
适用面广
项目工程最佳选择

Full power range
Widely applicable
The best choice for engineering project



This is the best sale and the highest occupation ratio Class H SMPS product in the market, spread to a variety of applications, its high performance-cost ratio, excellent electrical performance and availability power level are favored by the majority of customers.

- Discrete components, AI manufacturing craft.
- Independent research and development and manufacture professional audio SMPS power amplifier with ultra power.
- ICT computer detection, Eight strict QC process.







开关电源产品中H类顶级机型。电源模块历经4代改良，非常稳定可靠。功率模块基于非常成熟的H类技术改进而来，加入了针对开关电源的完美配合线路，各项保护力求尽善尽美。

产品内部结构采用前后分布，由电源模块、功率输出模块和前后面板构成。散热风扇至于其中，这样有着非常高效的散热效率。功率模块采用分层设计，大功率器件和高发热器件均分布在风道中，而树立式设计更有效抵抗机箱震动带来的负面影响。从实践中证实，这是一个开关电源产品最为优化的设计。

The top SMPS product of Class H .After 4 generations improved, the power supply module is very stable and reliable,Power module based on very sophisticated technology to improve from Class H, Added the perfect match for the switching power supply circuit, for the protection and strive to perfect.

Internal structure adopt before and after distribution,makes up by power supply module、power output module and the front and rear panel.The cooling fan install inside have an excellent cooling efficiency.The power supply module adopt hierarchical design, High-power devices and high heating devices are distributed in the wind tunnel,Set type design is more effective on against the negative impact of chassis vibration.Confirmed from the practice, this is the most optimized design for SMPS products.

型号 Model	同时带载的每通道功率 Watts per channel（Both Channels Driven）			桥接功率 Bridged watts	
	8Ω*	4Ω**	2Ω**	8Ω**	4Ω**
X3	310w	500w	600w	1000w	1200w
X6	650w	1050w	1350w	2200w	2900w
X8	850w	1400w	2300w	3000w	4600w
X12	1200w	2000w	3000w	4100w	4800w
X15	1500w	2500w	3700w	4800w	7600w

备注：
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X3

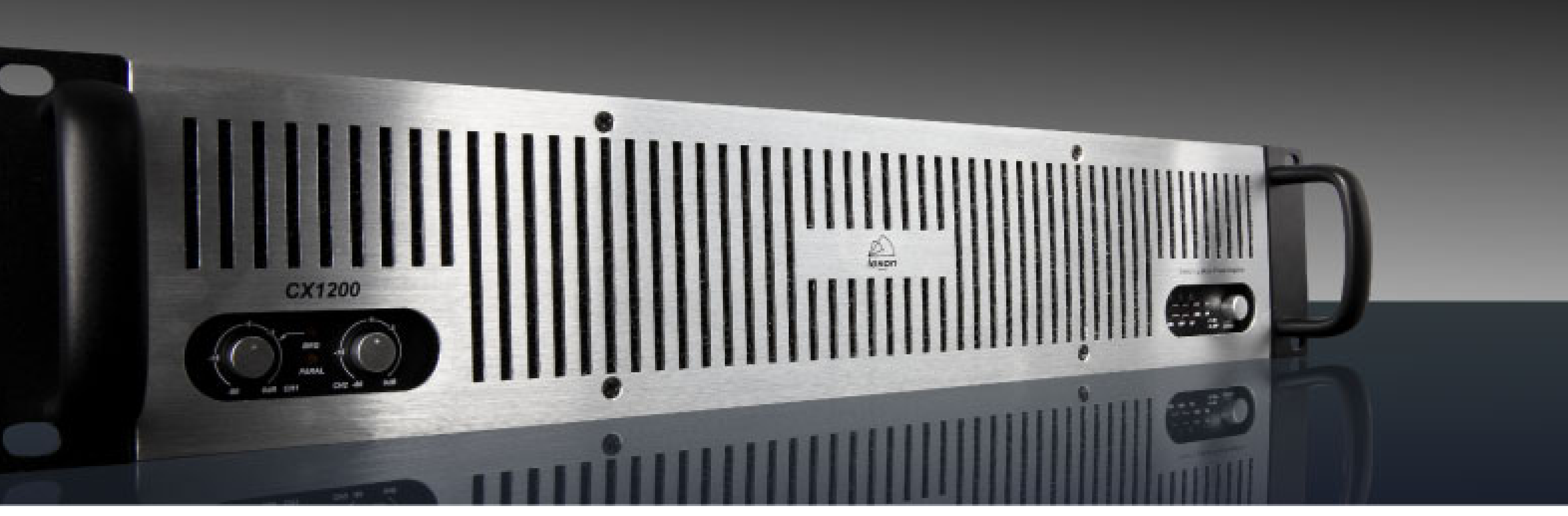

X6~8


X12~15











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This is the best sale and the highest occupation ratio Class H SMPS product in the market, spread to a variety of applications, its high performance-cost ratio, excellent electrical performance and availability power level are favored by the majority of customers.

型号 Model	同时带载的每通道功率 Watts per channel（Both Channels Driven）			桥接功率 Bridged watts	
	8Ω**	4Ω**	2Ω**	8Ω**	4Ω**
CX300	310w	500w	600w	1000w	1200w
CX600	650w	1050w	1350w	2200w	2900w
CX800	850w	1400w	2300w	3000w	4600w
CX1200	1200w	2000w	3000w	4100w	4800w

备注：
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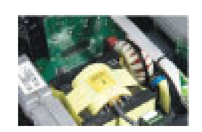
CX300



CX600~800



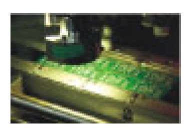
CX1200



专门为专业功放开放的开关电源
稳定的微芯片控制
功率能连续输出8kw
Specifically development SMPS for professional power amplifier
Stable microchip control
Power can continuous output 8kw



开关电源采用高涟波电流点解电容
有效提高低频氛围感
更耐可靠用
SMPS adopt high (Irac) capacitors
Improve the low-frequency atmosphere feeling effectively
More reliable and stable



AI和SMT制程工艺，ICT在线测试
做到最好的一致性
能有效保障产品的可靠性
Adopt AI and SMT production craft, ICT online testing technology
Achieved the best consistency
Can ensure the reliability of the product effectively.



XL

这是开关电源供电的功放定位最为普及化的产品，更适合更为广泛的多媒体应用工程，例如小型电影院、会议厅、酒店大堂、小酒吧等等场合，可以说是600W功放之内最为性价比高的产品了。同样出色的电器性能和齐备的功率等级而受到广大工程商追捧。

为了更好地配合工程安装，XL系列在输入接口上，具有3种主流音频输入接口~RCA/TRS6.3/XLR。而考虑到系统信号并接的方便，其中TRS6.3和XLR是并联的，用户可根据需要灵活运用。

XL系列也具有特别为低声压应用时补充低频的功能选择开关，当选择此功能时，低频段(110Hz-130Hz)会增加3dB增益，这样但你在较低声压时也能感觉到低频会较为丰满。
XL系列的输出都具有红黑柱和NL4输出端子，方便你的音箱线连接。

This is the most universal product in SMPS amplifier, more suitable for a wider range of multimedia applications, such as small movie theater, conference room, lobby, small bar, and so occasions, it must be the highest performance-cost ratio product within 600W. Its excellent electrical performance and availability power level are favored by the majority of customers.

In order to meet the engineering installation better, XL series in the input interface has 3 main audio interfaces: RCA/TRS6.3/XLR. Considering the convenient parallel of system signals, including TRS6.3 and XLR plugs are connected in parallel, users can flexibly use according to need.

XL series also has a special function selection switch for add low frequency in low sound pressure. When select this function, the low frequency (110Hz~130Hz) will add 3dB gain so you can feel a mighty low frequency in low sound pressure.

XL series adopt binding post and NL4 speakon in output terminal, easy to connect to speakers.

型号 Model	同时带载的每通道功率 Watts per channel（Both Channels Driven）			桥接功率 Bridged watts	
	8Ω**	4Ω**	2Ω**	8Ω**	4Ω**
300XL	110w	170w	---	340w	---
500XL	200w	300w	450w	600w	600w
900XL	310w	450w	600w	950w	1200w
1500XL	450w	750w	1000w	1500w	2000w
2000XL	600w	1000w	1250w	2000w	2600w

备注：
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900XL



1500~2000XL

简洁、稳定

Easy to use、stable



● LP26是专门为需要前置电子分频及将信号进行处理的音箱处理器。L26是2入6出设计，适合立体声3分频和单通道4分频以上使用。

● LP26面板采用铝合金拉模，彰显其实力派。而每个按键都是半透明的乳胶按键，白色背光LCD液晶显示屏，另操作更易上手。

● LP26内置数字音箱处理器的每个通道内置有增益控制、延时、分频分配、均衡、压限等说有基本模块功能。可以通过USB连接，PC界面控制各项参数设置，调整简单方便，是小型线阵系统的最佳搭档。

● LP26操作界面有多种语言选择，计有： 英语，德语，西班牙语，法语，荷兰语。

● 本机有20个设定预设记忆，而采用PC则有多达100个预设记忆，足够使用实际的需要。

● 取样率为96KHz,系统可设置密码，可以防止无关人员的操作。

型号 Model	LP26 音箱处理器 LP26 Loudspeaker processor
输入输出Input/Output:	2 x 6 ways(XLR)
最大输出电平Max output level:	+9dBu (600 Ω loading)
频响Frequency response:	20Hz-20kHz(-0.3dB)
动态范围Dynamic range:	>110dB(20Hz-20kHz)
谐波失真THD+N:	<0.05%(20Hz-20kHz 0dBu)
最大延时Max delay:	8ms(step pitch:15μs)
参量均衡PEQ :	10 bands/each channel output
Q值Filter Q value:	0.2-25 adjustable step pitch:0.1 adjustable
压限阀值Limiter threshold value:	-50dBu ~ +9dBu
取样率Sampling rate :	96KHz Phase :180°
显示屏LCD Display:	2 X 16 Pix (back light)

Remark :

1、Other data is tested under Q/SAE 1-2005 standard.

2、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.

● LP26 is a speaker processor designed for the needs of pre-electronic divide frequency and to process the signal. LP26 adopt 8 channels, 2 input and 6 output can meet the needs of stereo 3-band frequency and the use of more than single-channel 4-band frequency .

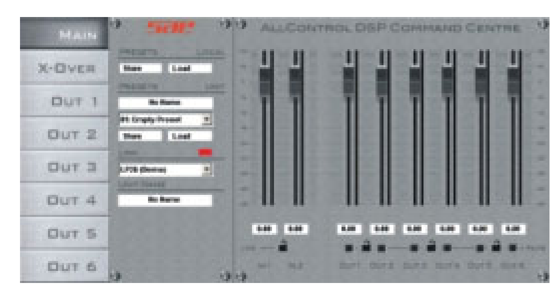
● LP26 adopt aluminum panel, highlight its temperament. Each button is translucent latex button, white backlit LCD liquid crystal display, make the operation more easier.

● LP26 Built-in digital speaker processor and build-in gain control、delay、frequency allocation, balanced、Compression for each channel. Through the USB connection can set up parameters by computer, the adjustment is simple and convenient, LP26 will be the best partner for line array system.

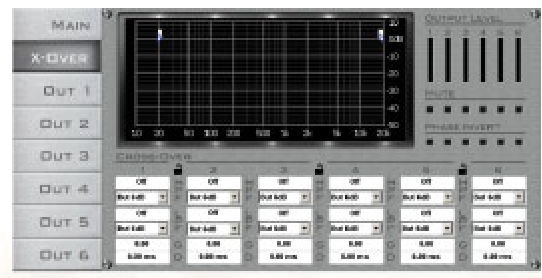
● LP26 with multilingual language options such as: English, German, Spanish, French, Dutch.

● LP26 has 20 setting preset memory, and use PC is up to 100 preset memory, enough for practical needs.

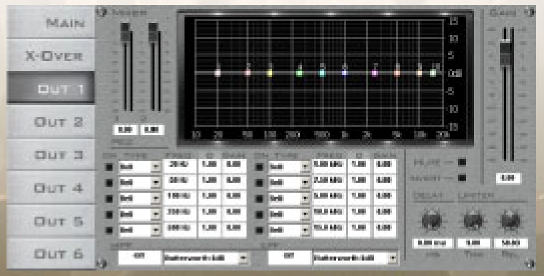
● Sampling rate is 96KHz, the system can set a password, you can prevent the operation of unrelated persons.



Main Interface 输入及主输出界面



X-over Interface 分频器界面



Output Interface 输出调整界面



S2008i

此设备适合会议、教堂等需要更多地免除干扰的应用场合。

2008i最大的特点是在1018控制的基础上加入了2级EMI/EMC噪声滤波器，实验证明，能有效阻隔诸如强无线电，电火花等干扰从电源引入设备。这样对最终重放音质及稳定性产生积极的作用。

在控制设计上，为了满足远程控制的需要，特意增设RJ11接口的线控端口，这端口可以连接中控的继电器常开端，用中控设备来控制2008i的开关。

2008i的输入特意选择D型80A动力型空气开关，从设备背面引入电缆接入空开，符合建设部标准。

This equipment is suitable for conferences, churches where need to remove the more interference.

The biggest feature is add a 2-stage EMI/EMC noise filter on the basis of the control in 1018,that can block many interferences enter the equipment from the power supply such as strong ratio、electric spark and others, will make a positive effect in sound quality and stability.

In order to meet the needs of long-range control, we special add an RJ11 line control interface. By the interface user can connect to the control central to control the switch of 2008i.

We adopt D80A Power-type air switch and connect the cable to air switch from the rear panel meet the standards of the Ministry of Construction.

型号 **Model**	**2008i 带滤波电源时序管理器** **2008i Sequence filter power**
电力输入Power Input:	单相3线 Single-phrase 3 lines
连接器 Connector:	空气开关 CDB2-125/D80
输出路数 Output CH:	8路时序 Channel quantity 8

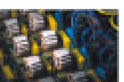
其他参数 **Other specification**

最大总输出Total max output:	80A(AC220V)
每路最大输出Max output current per channel:	30A/60s or 10Arms
时序间隔Interval per step:	1sec
U口电力输出 Max voltage/current for USB LED:	5V/50mA

备注：
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可外部线控
Switch remote


双重滤波
Noise Filter


动力型空开总闸
80A power switch


万能插座
Universal Socket


安全接线箱
Connector Security


开关电源
SMPS





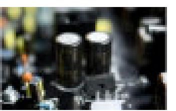
D1048

型号 Model	D1048 1X8或2X4 信号分配器 D1048 Signal distributor amplifier
信噪比 S/N rate (A weight)	>100dB
频响Frequency response	20Hz-20kHz ±0.5dB
失真THD%	<0.03%
分配模式Input mode	2 x4(2 channel) or 1x8(1 channel)
动态范围Dynamic range	118dB

备注：
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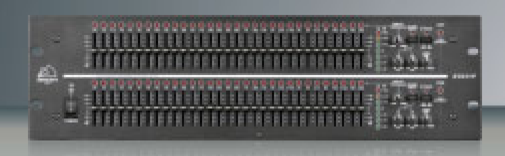
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铜脚金膜电阻
Cu Pin Resistance


音频专用电容
ELAN® Capacitance


极品运放
Hi-End Op amps


名厂连接件
Neutrik® *XLR*





E3231F

型号 Model	E3231F 返馈指示双31段均衡器 E3231F Feedback display EQ
信噪比S/N rate (A weight) :	>95dB
频响Frequency response :	20Hz-20kHz ±0.5dB
失真THD% :	<0.01%
指示控制**Precision of the central**	
频率Frequency :	>90%
均衡增益控制EQ control gain :	±15dB
动态范围Dynamic range :	118dB
输入增益Input gain :	-∞- +6dB

备注：
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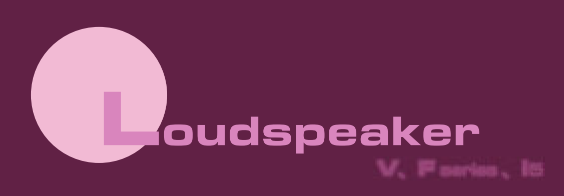
S1018

型号 Model	S1018 8路电源时序器 S1018 Sequence power
电力输入Power Input:	单相3线 Single-phrase 3 lines
连接器 Connector:	空气开关 DZ47/C63
输出路数 Output channel:	8路时序 Channel quantity 8
其他参数 **Other specification**	
最大总输出Total max output:	63A(AC220V)
每路最大输出Max output current per channel:	30A/60s or 10Arms
时序间隔Interval per step:	1sec
U口电力输出 Max voltage/current for USB LED:	5V/50mA

Remark :
1、Other data is tested under Q/SAE 1-2005 standard.
2、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.







Loudspeaker
V、F series、IS





V系列线阵是专门为中小型场所扩声开发的，具有易搬、易用的特性，体积小，两人即可完成安装。

V2208采用HIPS材料压铸成型箱体，内置2只高强铝铁鹏磁钢的8寸中低频单元，配以半月形相位板，另声音更集中，相位更准。箱体中间是一只1.33寸的用高强铝铁鹏磁钢高频激励器。配套的号角辐射角度为120°X3°。

产品的安装方式可以是吊挂方式或是落地方式。现在的吊挂方式是最常见的安装模式，V2208坚固的侧翼和进过特殊处理的插销。

V series line array system was special designed for small-medium business entertainment performance and indoor and outdoor multifunction venues, light and small volume, easy to use and two people together are able to easily complete the large-scale installation work.

V2208 adopt arc HiPS (plastic) casting enclosure, build-in 2x8inch neodymium magnet woofer with Half-moon phase panel that make a more concentrate sound and more accurate phase. In HF we use 1 1.33in High-strength neodymium iron boron magnets HF driver and dispersion angle for standard linear array as 120°X3°.

Product installation way can be hanging way or landing. V2208 has a strong flank and special worked bolt to ensure the safety.



V2208w

V1212w

V1115w

V1118w

V1218w



型号

Model	V2208	V1212	V1115	V1118	V1218
单元Speaker driving unit(Hf/Mf):	1x 1.73"+2x8"	2x 12"	1x 15"	1x 18"	2x 18"
音圈Speaker Components(coil):	23mm/50mm	100mm	100mm	115mm	115mm
频响Rated frequency(±3 dB):	80~18 kHz	60~500Hz	42~200Hz	38~200Hz	30~200Hz
额定功率Rated power*:	HF 60 w/ MF 300w	800w	500w	800w	1600w
额定阻抗Unit Impedance:	HF 16 Ω / MF 16 Ω	4 Ω	8 Ω	8 Ω	4 Ω
灵敏度Sensitivity(1 W/m):	HF: 104 dB/MF: 96 dB	98 dB	98 dB	98 dB	101 dB
最大声压Max SPL(at 1 m Peak):	HF: 124 dB / MF: 123 dB	130 dB	128 dB	130 dB	133 dB
指向角Dispersion angle:	H: 110° V: 3°	---	---	---	---
推荐分频点Crossover frequency:	1.8kHz (18dB/OCT)	400Hz	130Hz	100Hz	100Hz
净重Weight:	14.4 kg	31.5 kg	52.2 kg	54.5 kg	94.5 kg



V2208 +V1115+小吊架 Small Array frame

备注：

1、*,按GB/T 9396-1996标准测试得出。
2、SAE保留对以上参数的解释权，参数有所变动恕不再另行通告，最后参数以产品说明书为准。

Remark :

1、*The power are tested under GB / T 9396-1996 standard.
2、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.

F


F2108w


F2208w


F1115w

F系列全频音箱专为高品质扩声设计，内置分频器，本系列有黑白2种颜色3个型号。

F2108是单8寸的全频音箱，F2208是双8寸的，而F1115是专为搭配F2108和F2208而设计的超低频音箱。

F系列拥有多种安装支架设计，支持多种安装方式，完全可以适应多种室内安装。

用户可以根据使用需要配置一台450w ~ 850w的功放来搭配而且无需再另配电子分频器，相当容易使用。

F series full-range loudspeaker is designed for high sound quality sound reinforcement,build-in crossover and have black and white 2 colours and 3 models.

F2108 is a single 8inch full-range speaker and F2208 is a duoble 8inch speaker, F1115 is specifically subwoofer matched to F2108 and F2208 .

F series with complete mounting bracket, can be adapted to a variety of indoor installation.

Users can according to the need to match a 450w ~850w power amplifier to drive, no need to use electronic crossover, easy to use.



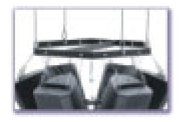
型号： Model：	F2108	F2208	F1115
单元Speaker driving unit (Lf):	1.33"+8"	1.33"+2X8"	15"
音圈Speaker Components(coil):	23/50mm	23/50mm	75mm
频响Rated frequency(±3 dB):	75~18kHz	70~18kHz	40~120Hz
额定功率Rated power*:	150w	300w	400w
额定阻抗Unit Impedance:	8 Ω	8 Ω	8 Ω
灵敏度Sensitivity(1 w/m):	92 dB	95 dB	97 dB
最大声压Max SPL(at 1 m Peak):	120 dB	122 dB	126 dB
净重Weight:	10.5 kg	14.2 kg	42.5 kg

备注：
1、*,按GB/T 9396-1996标准测试得出。
2、SAE保留对以上参数的解释权，参数有所变动恕不再另行通告，最后参数以产品说明书为准。

Remark：
1、*The power are tested under GB / T 9396-1996 standard.
2、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.

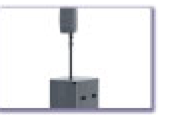
安装配件 Install Accessories

音箱配件（包）为独立销售的产品，用户可以根据使用需求进行针对性选择，具体成品编码请参考音箱附件页。
Speaker accessories products (pack) for independent sell , users can specific choose it according to the needs, The code of finished product please reference to speaker accessories page.


花篮形组合
Hexagonal annular frame


墙壁垂直吊挂
Wall-hanging vertical


地面监听
Floor Monitor


组合支撑
Support bar


墙壁横向吊挂
Wall-hanging horizontal


流动支撑
Rental Carrying

i5

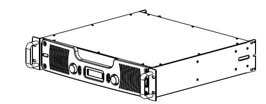
型号： Model：	单5"全频 i5
单元口径Speaker driving unit (Lf):	5"
音圈尺寸Speaker Components(coil):	25mm
额定频率Rated frequency(±3 dB):	150~17kHz
额定功率Rated power*:	40w
额定阻抗Unit Impedance:	4 Ω
灵敏度Sensitivity(1 w/m):	92 dB
最大声压Max SPL(at 1 m Peak):	111 dB
净重Weight:	1.8kg

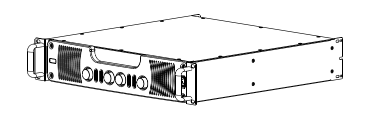
备注：
1、*,按GB/T 9396-1996标准测试得出。
2、SAE保留对以上参数的解释权，参数有所变动恕不再另行通告，最后参数以产品说明书为准。

Remark：
1、*The power are tested under GB / T 9396-1996 standard.
2、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.


Specifications
Power amplifier
Speaker dimension
Accessories

参数表 Specifications





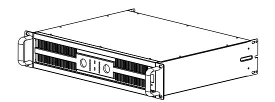
型号Model	5	7	11	15	18	20	Q13
在220V~50Hz的稳压稳频供电条件下同时带电阻负载的每通道输出功率 both channels driven output power (THD=1%)							
8Ω stereo*	500w	700w	1100w	1500w	1800w	2000w	1300wx4
4Ω stereo**	850w	1100w	1800w	2500w	3000w	3400w	2000wx4
2Ω stereo**	1500w	1700w	2600w	3400w	3300w	3900w	2200wx4
8Ω bridge**	1700w	2200w	3700w	4600w	5500w	6700w	4000wx2
4Ω bridge**	2700w	3200w	5100w	7000w	6600w	8000w	4500wx2
其他数据Other Specification							
频响Frequency response	20~20kHz(-0.5dB)						20~20kHz(-0.5dB)
总谐波失真THD+N	<0.3%						<0.3%
信噪比S/N rate	>90dB						>90dB
阻尼系数Damping factor	>200						>200
分离度Crosstalk	>70dB						>60dB
转换速率Slew rate	>20v/μs						>20v/μs
输入灵敏度Input sensitivity	32dB/1v/0.775v						32dB/1v/0.775v
输入阻抗Input impedance (bal/unbal)	20k/10k						20k/10k
电压增益Voltage gain (8Ω)	38.3dB	39.7dB	41.7dB	43dB	43.8dB	44.3dB	42.3dB
输出类别Output circuitry	I						I
冷却Cooling	Air flow from front to rear						Air flow from front to rear
连接Connector							
输入Input	XLR						XLR
输出Output	NL4/Binding post						NL4
功能Function							
前面板指示Front pane indictorl	SIG / clip / Protect indicator/LCD						On / SIG / clip /VU/Protect indicator
前面板Front panel	Power switch /Volume control						Power switch /Volume control
后面板Rear panel	Operation mode/input sensitivity						Operation mode/input sensitivity
尺寸和重量Dimension/weight							
产品尺寸Product dimension(mm)	483x411x89					483x506x89	483x506x89
产品包装尺寸Packing dimension(mm)	585x565x170					620x585x170	620x585x170
毛重G.W.	13kg	13kg	15kg	15kg	15kg	16kg	17kg
供电要求Power	~220V/50Hz,±10%						~220V/50Hz,±10%

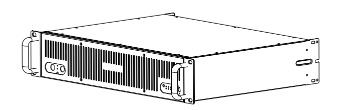
备注：

1、*,此功率是按照EIA标准测量得出.
2、**,此功率是使用40ms脉冲1kHz正弦波在1%总谐波失真下测量得出。
3、其他数据按：Q/SAE 1-2005标准测试得出。
4、SAE保留对以上参数的解释权，参数有所变动恕不另行通告，最后参数以产品说明书为准。

Remark：

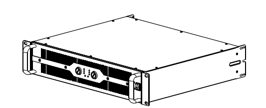
1、*,The power is tested under EIA standard.
2、**,The power is tested under the condition of 40ms burst, 1KHz sine wave and 1% THD.
3、Other data is tested under Q/SAE 1-2005 standard.
4、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.





X3	X6	X8	X12	X15	CX300	CX600	CX800	CX1200
310w	650w	850w	1200w	1500w	310w	650w	850w	1200w
500w	1050w	1400w	2000w	2500w	500w	1050w	1400w	2000w
750w	1350w	2300w	3000w	3700w	600w	1350w	2300w	3000w
1050w	2200w	3000w	4100w	4800w	1000w	2200w	3000w	4100w
1500w	2900w	4600w	6200w	7600w	1200w	2900w	4600w	6200w
20~20kHz(-0.5dB)					20~20kHz(-0.5dB)			
<0.1%					<0.1%			
>90dB					>80dB			
>200					>200			
>70dB					>70dB			
>20v/μs					>20v/μs			
26dB/32dB/38dB					32dB/1.0V/0.775V			
20k/10k					20k/10k			
38dB	38dB	38dB	38dB	38dB	32dB	32dB	32dB	32dB
AB	2 steps H	3 steps H			AB	2 steps H	3 steps H	
Air flow from rear to front					Air flow from front to rear			
XLR					XLR			
NL4 / Binding post					NL4 / Binding post			
Power / SIG / clip / Protect indicator					Power / SIG / clip / BRG / Protect indicator			
Power switch /Volume control					Power switch /Volume control			
Operation mode / Input sensitivity/Soft Clipping					Operation mode / Input sensitivity/Soft Clipping			
483x450x89		483x506x89			483x398x89	483x450x89	483x506x89	
585x565x170		620x585x170			585x510x170	585x565x170	620x585x170	
10kg	13kg	16kg	17kg	18kg	10kg	13kg	16kg	17kg
~220V/50Hz,±10%					~220V/50Hz,±10%			

参数表 Specifications



型号Model	300XL	500XL	900XL	1500XL	2000XL
在220V~50Hz的稳压稳频供电条件下同时带载的每通道输出功率 both channels driven output power (THD=1%)					
8Ω stereo*	110w	200w	310w	450w	600w
4Ω stereo**	170w	300w	500w	750w	1000w
2Ω stereo**	---	450w	600w	1000w	1250w
8Ω bridge**	360w	600w	1000w	1500w	2000w
4Ω bridge**	---	600w	1200w	2000w	2600w
其他数据Other Specification					
频响Frequency response	20~20kHz(-0.5dB)				
总谐波失真THD+N	<0.1%				
信噪比S/N rate	>85dB				
阻尼系数Damping factor	>100			>200	
分离度Crosstalk	>65dB		>70dB		
转换速率Slew rate	>20v/μs				
输入灵敏度Input sensitivity	0.775v/32dB				
输入阻抗Input impedance (bal/unbal)	20k/10k				
电压增益Voltage gain (8Ω)	32dB	32dB	32dB	32dB	32dB
输出类别Output circuitry	AB			2 steps H	
冷却Cooling	Air flow from front to rear				
连接Connector					
输入Input	XLR				
输出Output	NL4 / Binding post				
功能Function					
前面板指示Front pane indictorl	VU / SIG / clip / Protect /BRG / PAR indicator				
前面板Front panel	Power switch /Volume control				
后面板Rear panel	Operation mode / Input sensitivity				
尺寸和重量Dimension/weight					
产品尺寸Product dimension(mm)	483x335x89		483x389x89		
产品包装尺寸Packing dimension(mm)	595X460X170		595X510X170		
毛重G.W.	7kg	7kg	9kg	11kg	11kg
供电要求Power	~220V/50Hz,±10%				

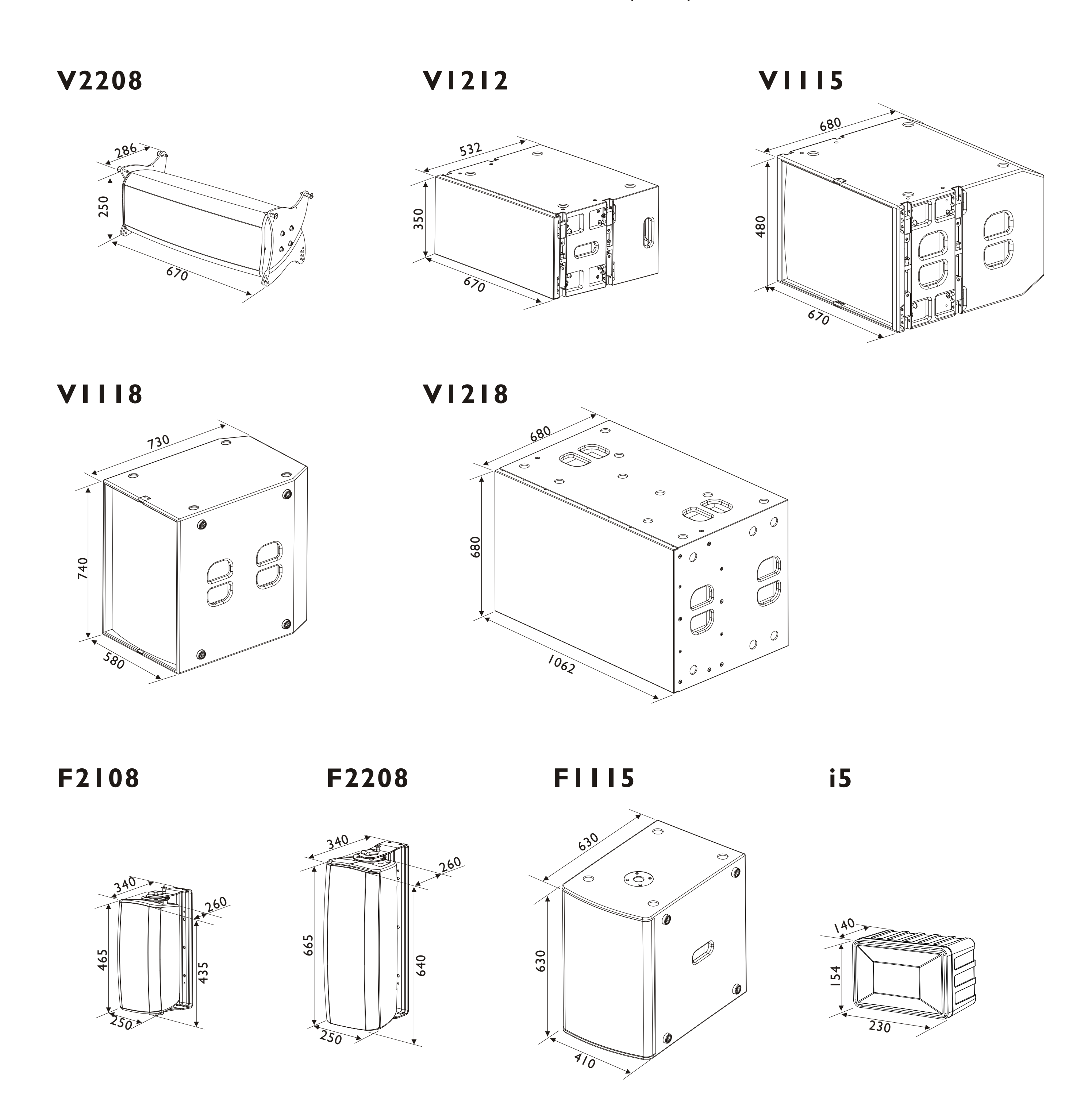
备注：

1、*,此功率是按照EIA标准测量得出.
2、**,此功率是使用40ms脉冲1kHz正弦波在1%总谐波失真下测量得出。
3、其他数据按：Q/SAE 1-2005标准测试得出。
4、SAE保留对以上参数的解释权，参数有所变动恕不另行通告，最后参数以产品说明书为准。

Remark：

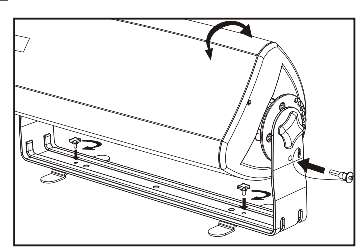
1、*,The power is tested under EIA standard.
2、**,The power is tested under the condition of 40ms burst, 1KHz sine wave and 1% THD.
3、Other data is tested under Q/SAE 1-2005 standard.
4、SAE reserves the right to make changes in specification without prior notice. The final specification is subject to the user manual.

音箱尺寸 Loudspeaker dimension (mm)

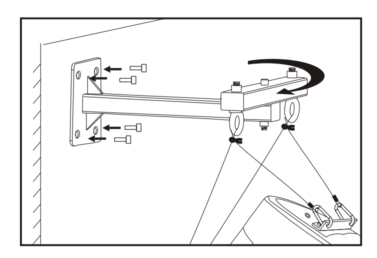


音箱安装配件包及零配件 Loudspeaker Accessories

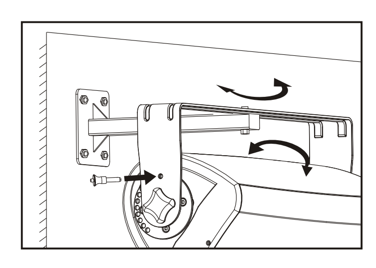
F



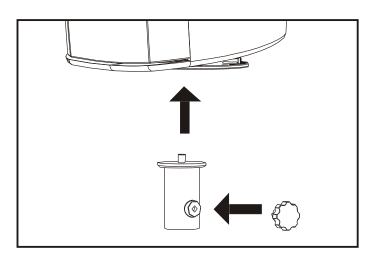
U型架配件包 U shape stand/feet
P/N:
F2108/F2108w
060040805005000 / 060040805005000（白色white）
F2208/F2208w
060040805001000 / 060040805001000（白色white）



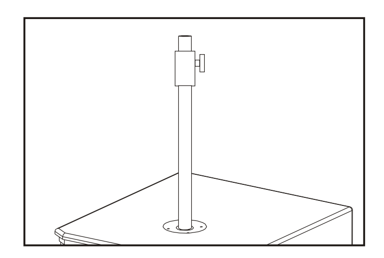
垂直吊架配件包 Vertical frame
P/N:
060040600000000 / 060040600001000（白色white）
（不包含横接杆 Exclude Horizontal Connection pole）



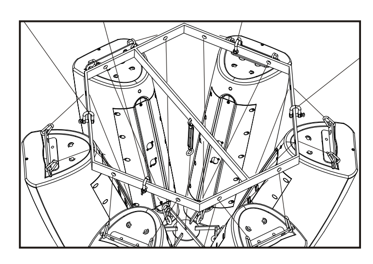
横向吊架配件包 Horizontal frame
P/N:
060040600004000 / 060040600004010（白色white）
（不包含U型架 Exclude U shape）



竖立支撑配件包 Vertical support accessories
P/N:
060040805006000 / 060040805004000 （白色white）

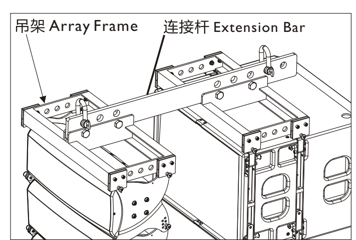


支撑杆 Supporter
P/N:
0060040601007000 / 060040601008000 （白色white）



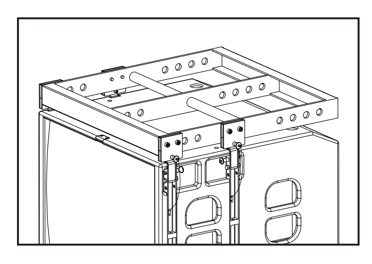
六角吊架配件包 Hexagonal annular frame
P/N:
060040600002000 / 060040600003000（白色white）





小吊架 Small Array Frame
P/N:
060040600006020 / 060040600007030（白色white）

小吊架连接杆 Extension Bar
P/N:
060040600006030 / 060040600008030（白色white）



大吊架 Large Array Frame
P/N:
060040600006011 / 060040600009030（白色white）

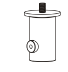
备注：
所列的成品编码均指非**RoHS**成品，如需符合**RoHS**的成品，请向业务员咨询。

Remark：
P/N are not **RoHS** product，if need **RoHS** product please consultate to our sales manager.

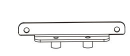
零配件 Components



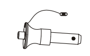
圆形侧架
Round side stand



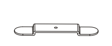
支撑杆用支撑座
Columned stand



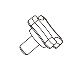
横接杆
Horizontal
Connection pole



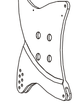
插销
Quick Release Pins



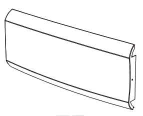
配合U型架的脚片
Floor Monitor Kit



调节旋钮
Lock&unLock adjuster



侧架
Side board



面网
Grille